393. VEHICLE FENDERS.

D. 1906 April 3. N.º 8013.
ND'S Complete Specification.

Fig. 1

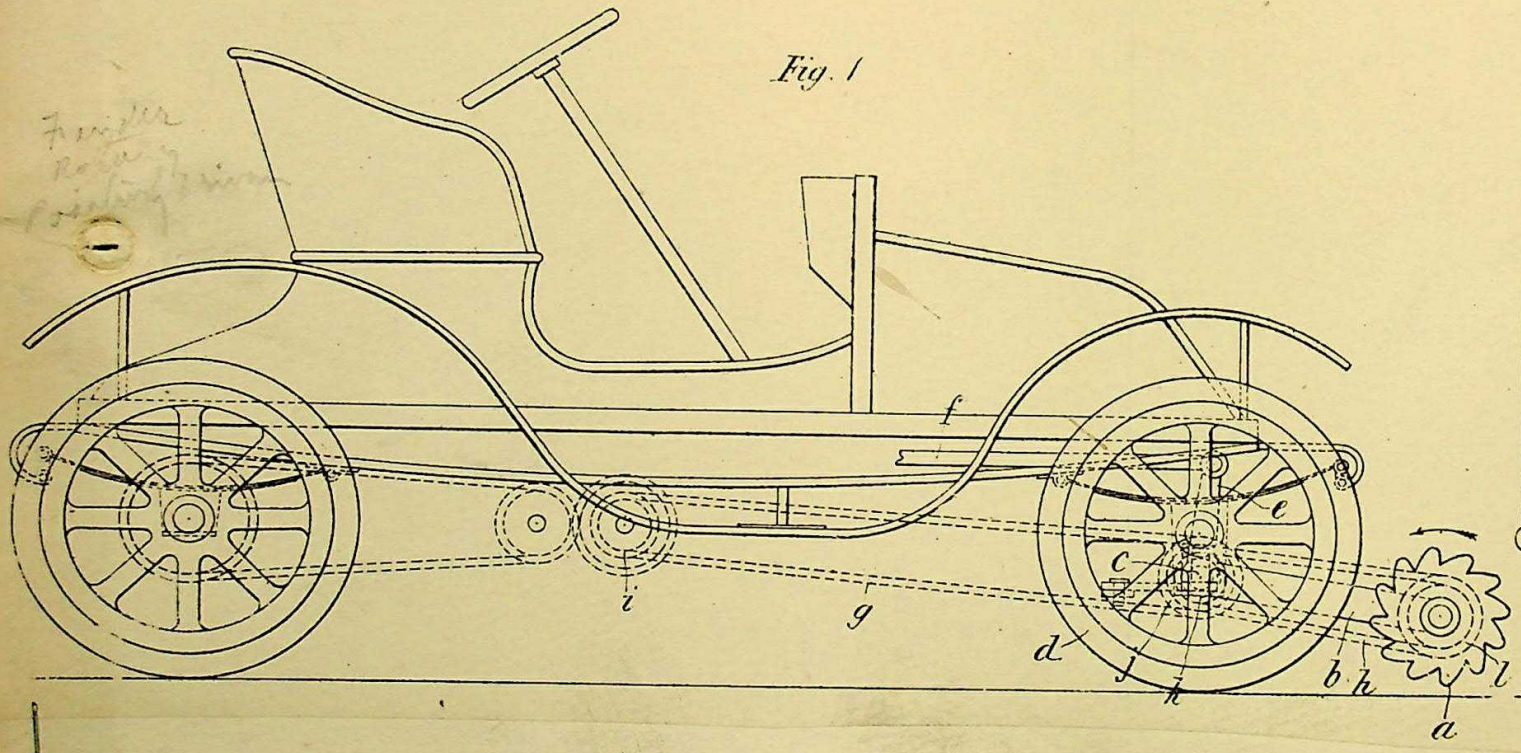
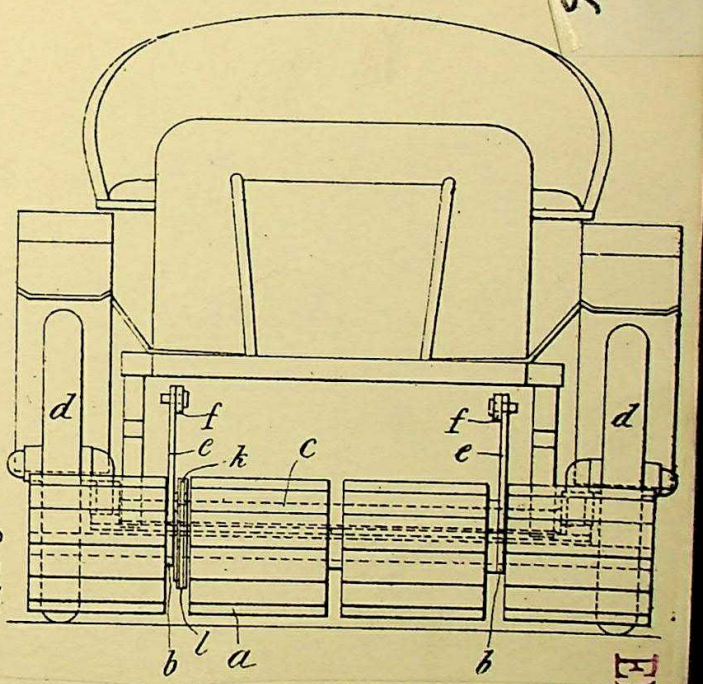


Fig. 3



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Date of Application, 3rd Apr., 1906
Complete Specification Left, 11th June, 1906—Accepted, 20th Sept., 1906

PROVISIONAL SPECIFICATION.

"Improvements in Life-guards or Obstruction-removers for Motor Cars, Omnibuses and the like."

I, JENS LUND, of 20 Cotleigh Road, West Hampstead, London, Mining Engineer, do hereby declare the nature of this invention to be as follows:—

The object of the present invention is to provide means for preventing mechanically propelled vehicles from running over and crushing persons or animals that may unfortunately be run down.

As at present arranged should a motor car or omnibus in motion strike against or knock down a dog or a foot passenger there is nothing to prevent the car wheels from running over the sufferer lying on the ground.

According to my invention I fit to the front of the vehicle in such a position that it just clears the surface of the ground, a device which will tend to throw off or remove from the track of the vehicle any obstruction placed in its path.

This device comprises a rotating barrel provided with blades, the revolution of which will lift and push away the body with which they come into contact and prevent the same from getting underneath the wheels.

In this way although the body may suffer from the blow of contact it will be spared the crushing from the weight of the vehicle passing over it.

Dated this 3rd day of April, 1906

NEWTON & SON,
6 Breams Buildings, Chancery Lane, London, E.C
Agents for the Applicant.

COMPLETE SPECIFICATION.

"Improvements in Life-guards or Obstruction Removers for Motor Cars, Omnibuses and the like"

I, JENS LUND, of 20 Cotleigh Road, West Hampstead, London, Mining Engineer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement;—

The object of the present invention is to provide means for preventing mechanically propelled vehicles from running over and crushing persons or animals that may unfortunately be run down.

If a motor car or omnibus in motion should strike against or knock down a dog or a foot passenger and there is nothing to prevent it, the car wheels will run over the sufferer lying on the ground.

Means have been suggested for preventing the vehicle wheels from running over and crushing the prostrate victim consisting of a drum or rollers carried

on the front of the vehicle which are intended to push aside any body lying in front.

This arrangement has not however come into general use possibly by reason of the fact that no provision has been made for rendering the protecting device independent of the motions of the vehicle body in a vertical direction, the position of the vehicle body vertically being influenced by the load on the springs which constantly varies and by the inequalities of the road which cause the springs to give way and rebound.

In carrying out my invention I employ protecting rollers or their equivalent in front of the vehicle but I mount them in such a way that they just clear the surface of the road and remain always in the same position notwithstanding inequalities in the ground and the oscillations of the body of the vehicle.

Accordingly I support the device for removing obstructions from the path of the vehicle on the axle of the road wheels which is uninfluenced by vibrations or oscillations and always remains constant in its distance from the ground surface.

In the accompanying drawing I have shown so much of a motor car as will serve to illustrate my invention.

Fig. 1 is a side elevation,

Fig. 2 is a plan, and

Fig. 3 is a front view.

a is a barrel or drum mounted on a shaft suitably carried in front of the car. This shaft is supported by the arms *b* of bell crank levers fulcrummed on the fixed axle *c* which carries the sockets for the steering wheel axles *d*. The arms *e* of the bell crank levers are coupled by link rods *f* to mechanism not shown by means of which they may be rocked on their fulcrum to set the drum *a* at any desired elevation from the ground.

Means are provided for rotating the drum *a* in the direction of the arrow (Fig. 1) which may consist, as shown, of chains *g* and *h* connecting the sprocket *i* on the engine counter-shaft with the sprocket *j* on the axle *c* and connecting the adjoining sprocket *k* on the said axle *c* with the sprocket *l* on the drum.

The form of the drum which as shown comprises four rollers placed end to end with tangential projections thereon may be greatly varied and if preferred an apron or aprons carried on rotating rollers may be employed. The drum or its equivalent may be arranged on an axis directly transverse to the line of travel of the car or at an inclination or the arrangement may be double with driving shafts set in V shape or at inclinations towards opposite sides of the car.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:

An attachment for motor cars and the like comprising a rotating device supported on the road wheels axle and carried in front and driven in such a way that it will travel at a constant level so that an object being struck will be pushed away and prevented from getting beneath the car wheels, substantially as set forth.

Dated this 11th day of June, 1906

NEWTON & SON,
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Agents for the Applicant.

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